

ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are <u>equity</u> and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is <u>forward looking</u>, based on what could and should be, not necessarily what is or has been

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are <u>equity</u> and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is <u>forward looking</u>, based on what could and should be, not necessarily what is or has been

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are <u>equity</u> and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is <u>forward looking</u>, based on what could and should be, not necessarily what is or has been

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are equity and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is <u>forward looking</u>, based on what could and should be, not necessarily what is or has been

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are <u>equity</u> and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is <u>forward looking</u>, based on what could and should be, not necessarily what is or has been

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The optimum Wilderness management goals may not always please local interests or the current visitors
- There are <u>equity</u> and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is forward looking, based on what could and should be, not necessarily what is or has been

ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

Footprints on the Land:

An Assessment of Demographic Chemis and the Future of Natural Resources in the United States

By H. Ken Cordell Christine Overdevest, Principal Authors



This published beok examined the population, Caemographic, urban, rural, economic, leisure and recreation trends of the United States. An update is underway.

Dominant Socioeconomic Forces Shaping the Future of the United States: An Update of **Footprints**

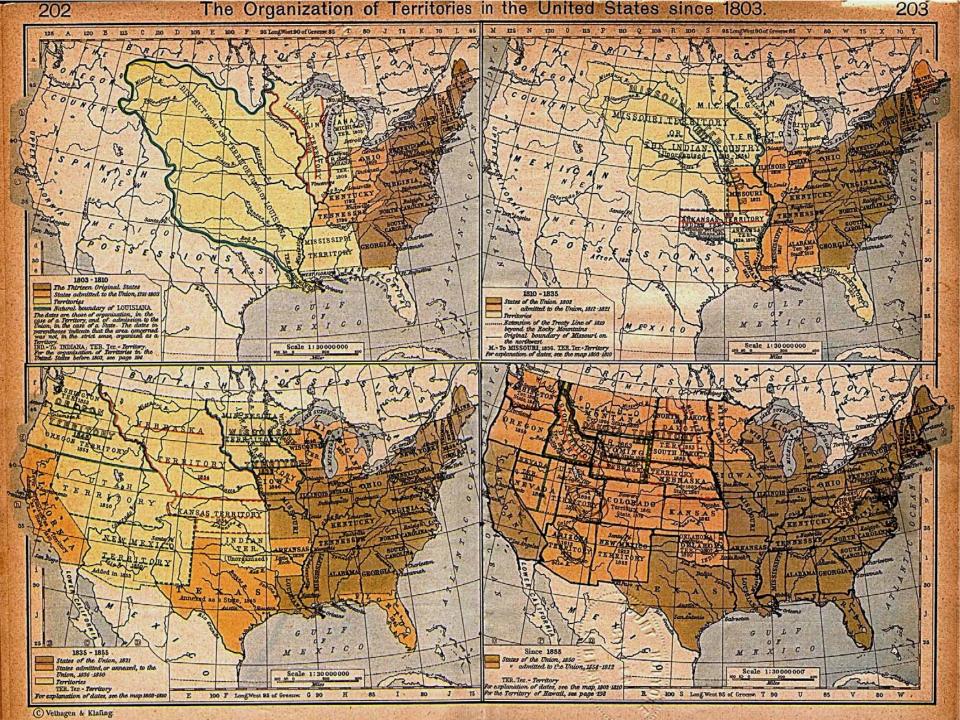
H. Ken Cordell, John C. Bergstrom, Carter J. Betz and Gary T. Green²

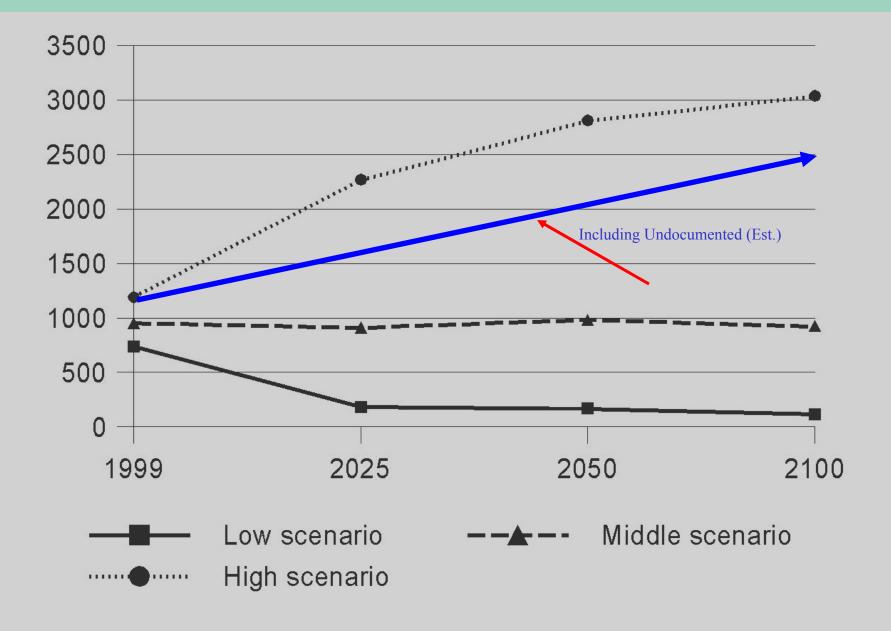
Introduction

This chapter is devoted to providing up-to-date summaries of a number of highly important social and accommission of the factors of the Heisel State of the Heis social and economic trends that will play a role in the future of the United States and its natural resources. The trend topics covered include population growth, changing composition of the population, urban growth and sprawl, transition of rural lands, economic growth, consumer spending, and recreation demands. This chapter is essentially an abbreviated update of the book Footprints on the Land (Cordell & Overdevest, 2001). It is undertaken

¹Project Leader and Outdoor Recreation Planner respectively, USDA Forest Service, Southern Research Station, Athens, GA.

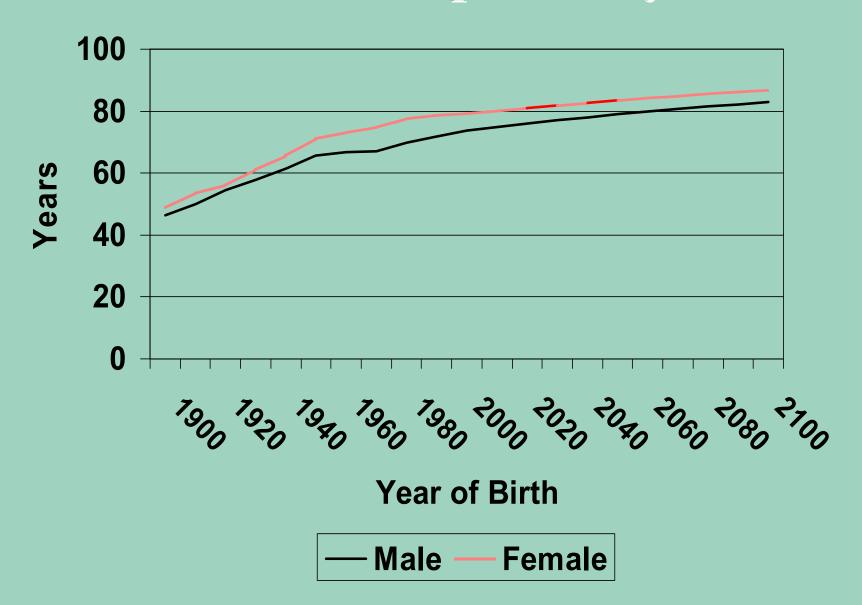
²Respectively, Professor, Agriculture & Applied Economics, and Assistant Research Scientist, Warnell School of Forest Resources, University of Georgia, Athens, GA.



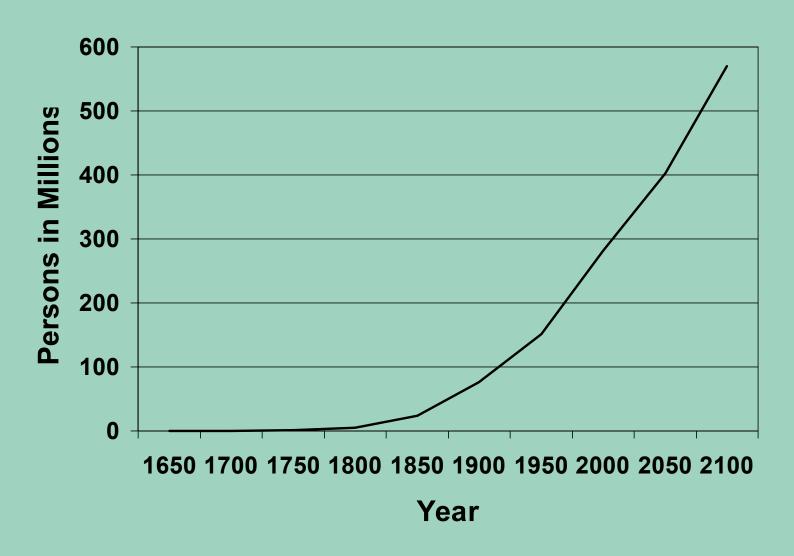


Projected net migration to the US, 1999-2100, under alternative low, middle, and high scenarios.

Life Expectancy



Historical and Projected Population in the U.S.



Historic and Projected Population by Ethnicity

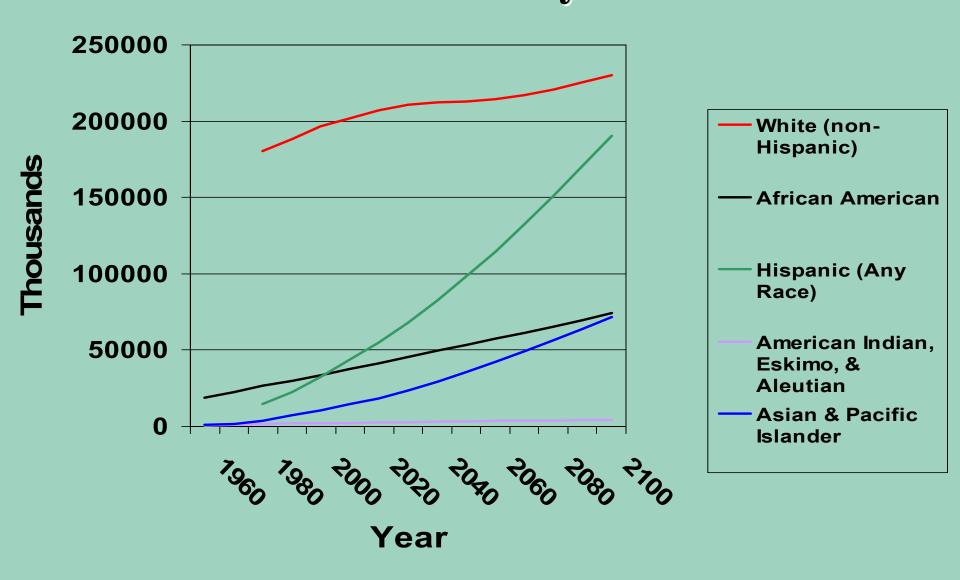
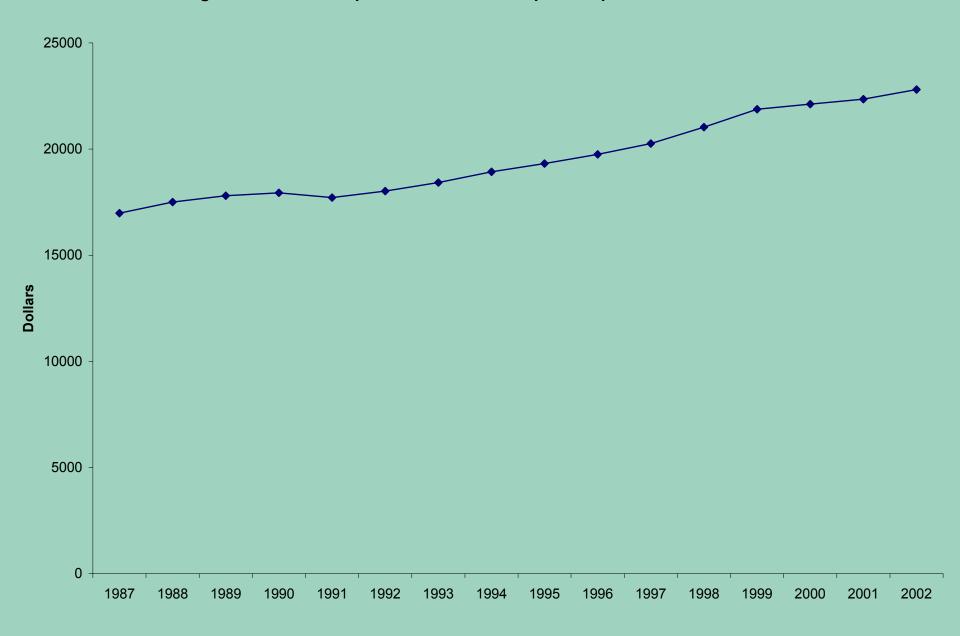
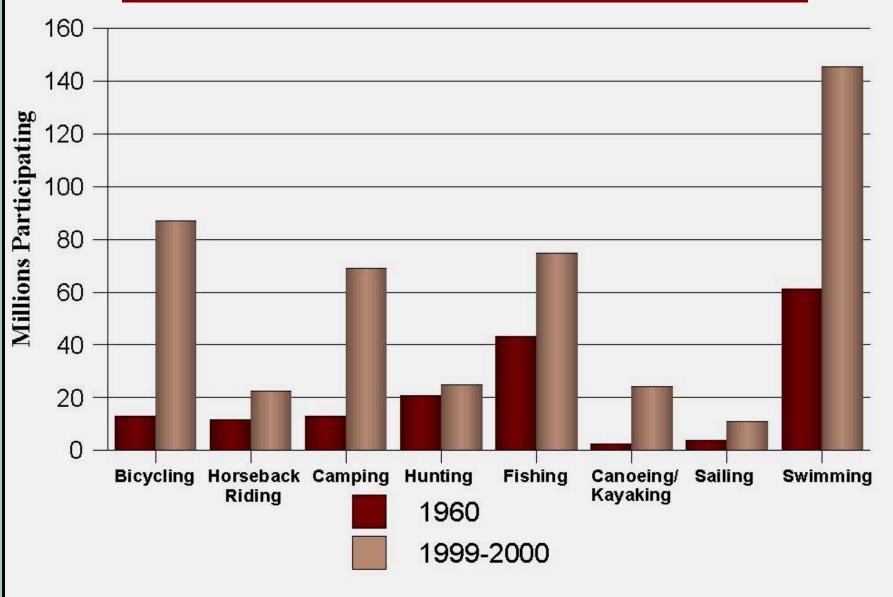


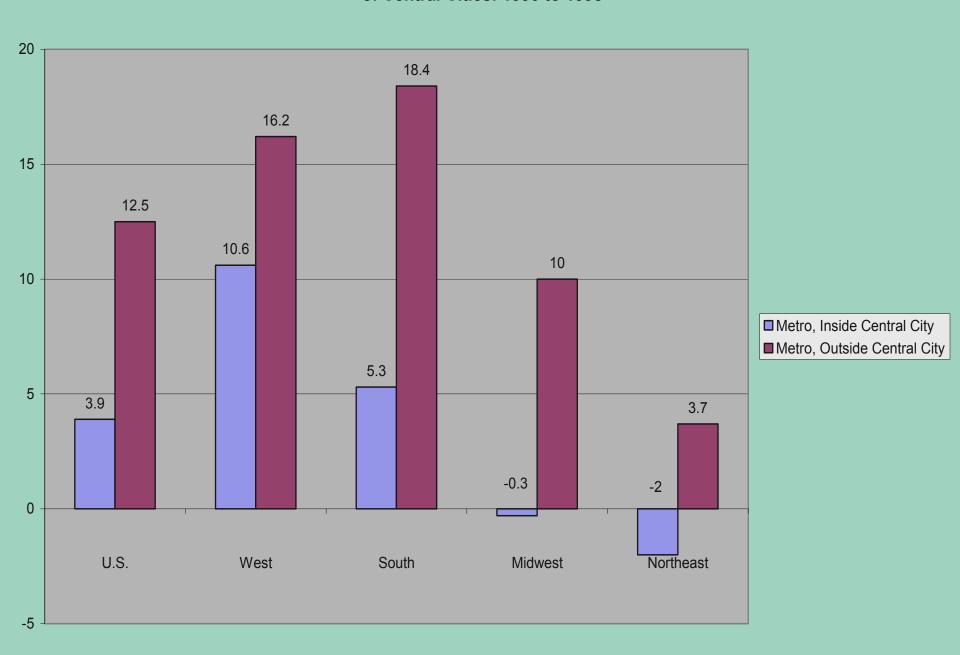
Figure 6. Real Per Capita Personal Consumption Expenditures Over Time

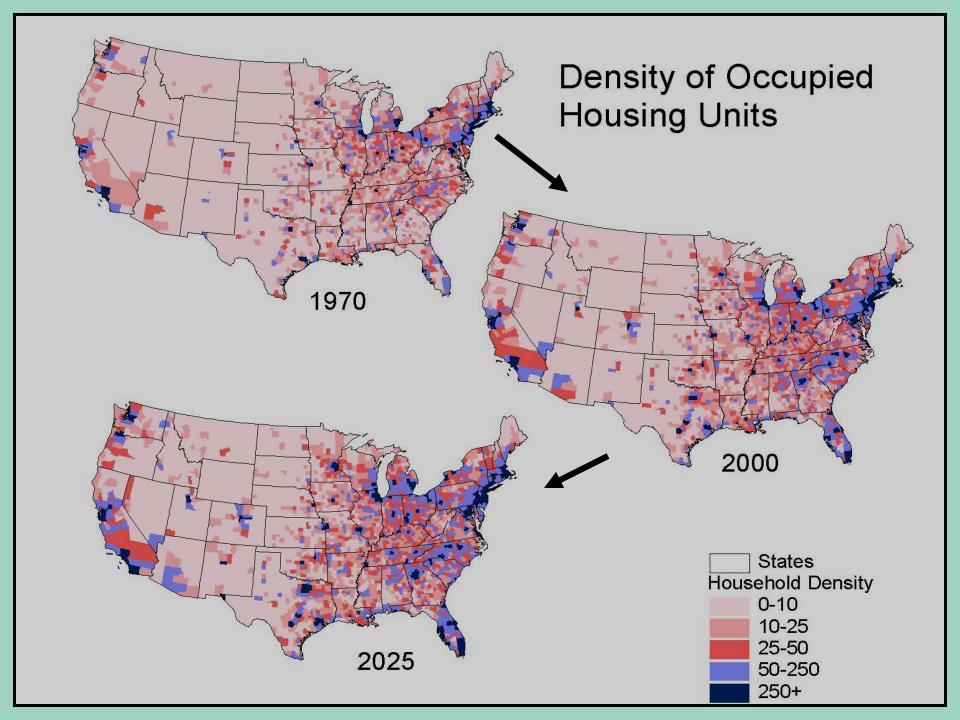


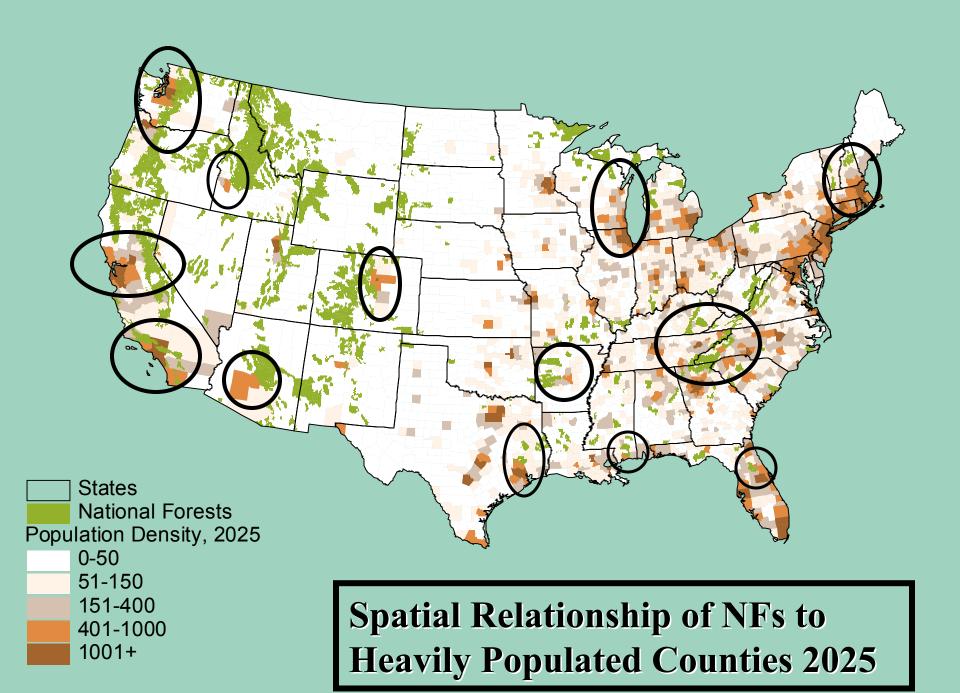
LONG TERM TRENDS SINCE 1960



Percentage Change in Metro Populations Inside and Outside of Central Cities: 1990 to 1998





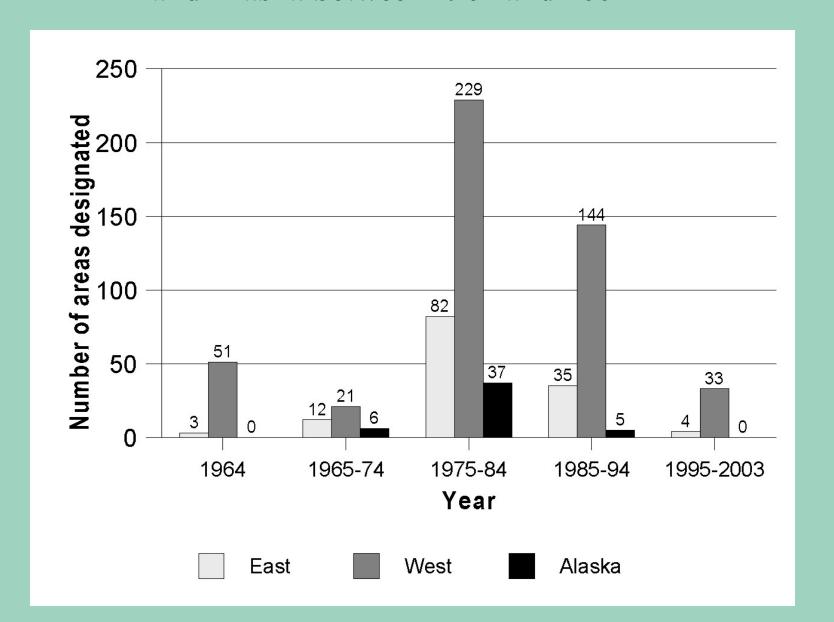


ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

The Multiple Values of Wilderness The Multiple Values of Wilderness Cordell Principal Author H. Ken Cordell **Principal Author**

Number of Wilderness areas designated in the East, West, and Alaska between 1964 and 2002

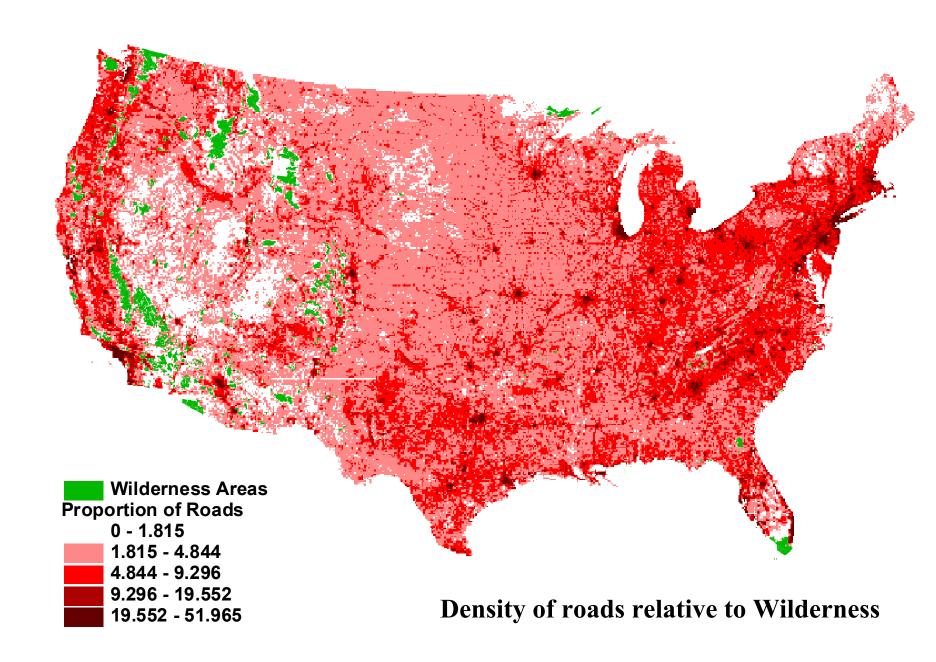


Number of Wilderness areas and acres in the 10 states having the most Wilderness

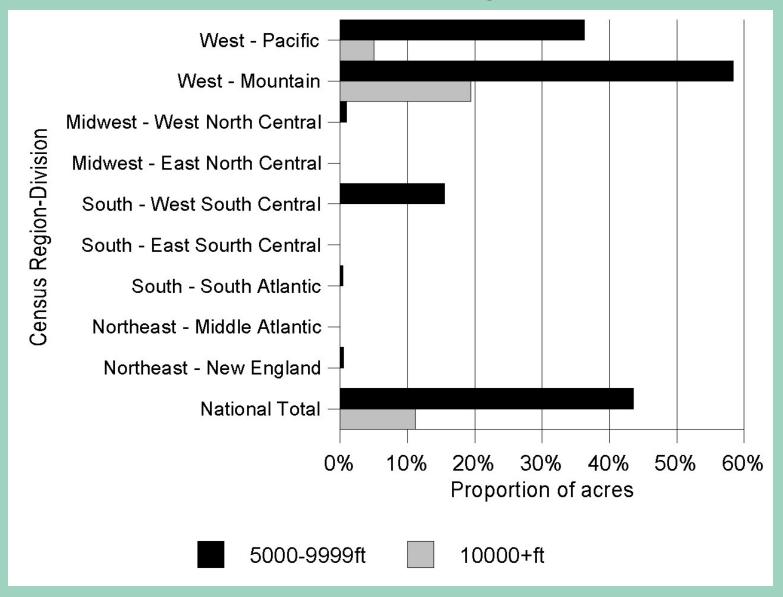
State	Areas	Acres	Percentage of National Total Acres
Alaska	48	58,182,216	58.70
California	130	13,975,535	14.10
Arizona	90	4,518,442	4.56
Washington	30	4,324,182	4.36
Idaho	7	4,015,061	4.05
Montana	15	3,442,416	3.47
Colorado	40	3,171,685	3.20
Wyoming	15	3,111,132	3.14
Oregon	40	2,258,238	2.28
Nevada	42	2,123,343	2.14
National Total	457	99,122,250	100.00

Number of people living within 25, 50, 100, 200, and 400 miles of Wilderness

Distance	Sum of Population	Percent of Population
25 miles	47,495,997	16.8
50 miles	114,497,257	40.6
100 miles	195,745,452	69.4
200 miles	262,151,985	93.0
400 miles	281,918,792	100.0

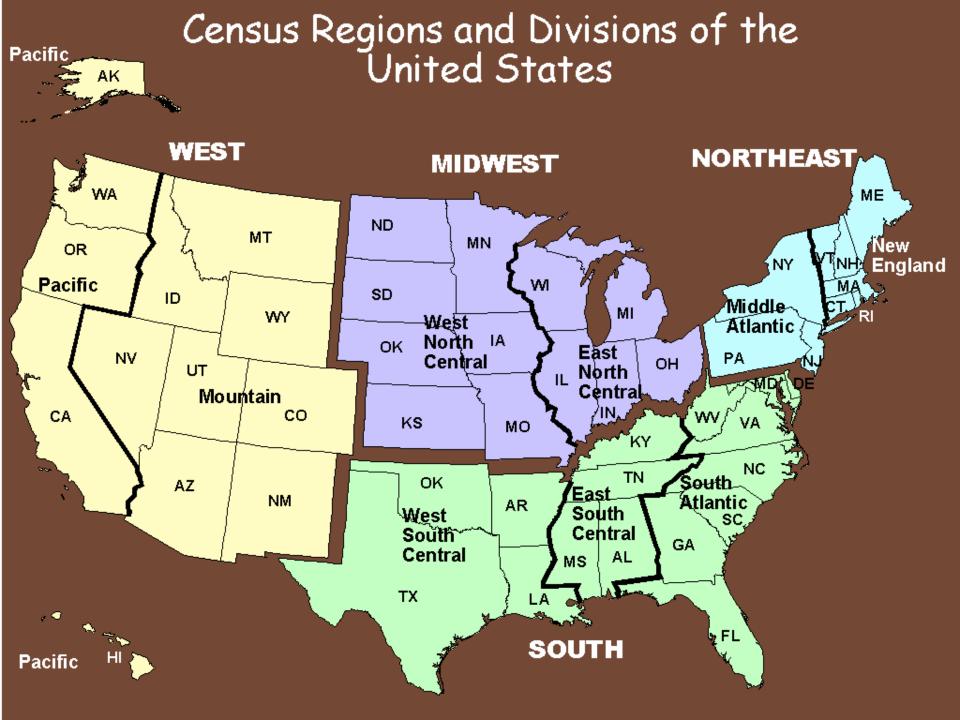


Percentage of total Wilderness area at elevations above 5,000 feet by census division and nationally

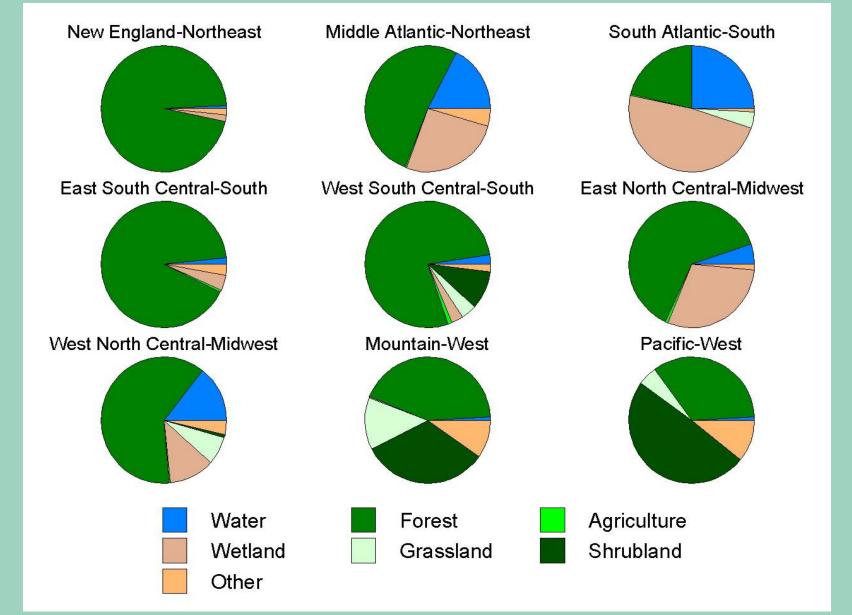


National

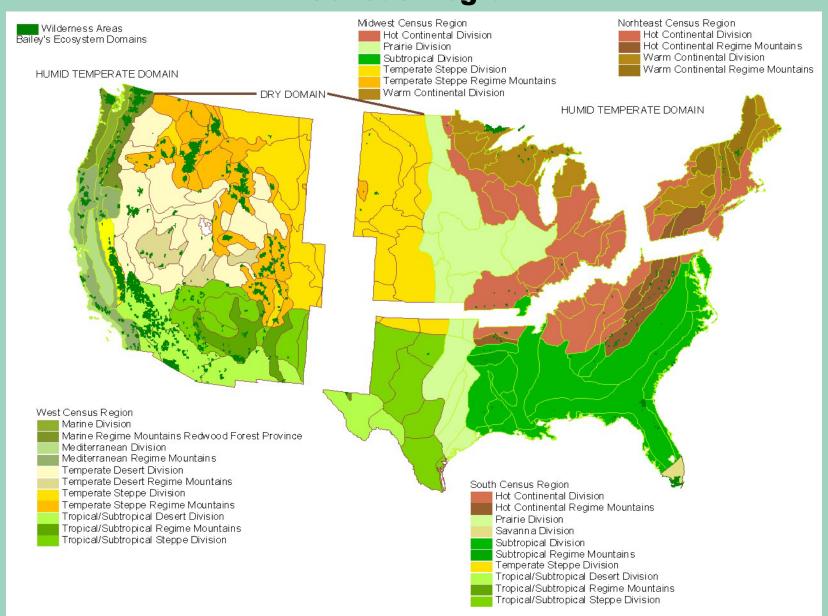
Precipitation	Areas	Acres	Percent of Total
0-15 in.	146	12,920,179	27.55
16-30 in.	138	9,517,039	20.29
31-40 in.	101	8,777,388	18.72
41-60 in.	185	9,817,244	20.93
61-90 in.	63	3,533,052	7.53
100+ in.	20	2,331,883	4.97



The proportion of Wilderness areas in each of 7 land cover classes by census division



Location of designated wilderness areas relative to type of ecosystem at Bailey's Domain and Division level for each Census Region



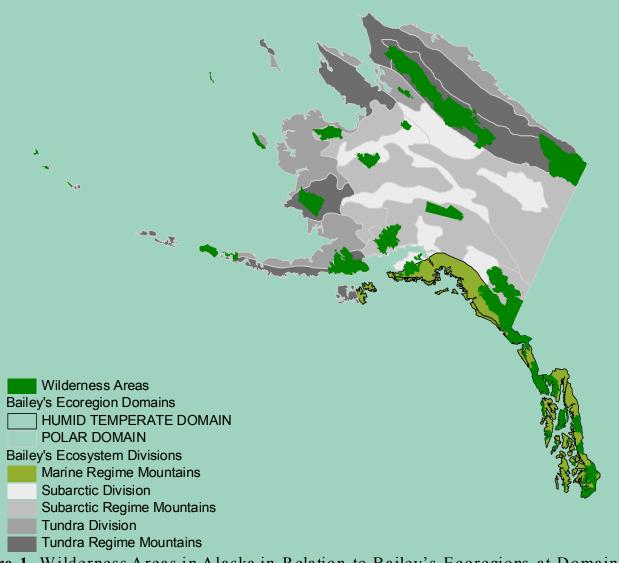
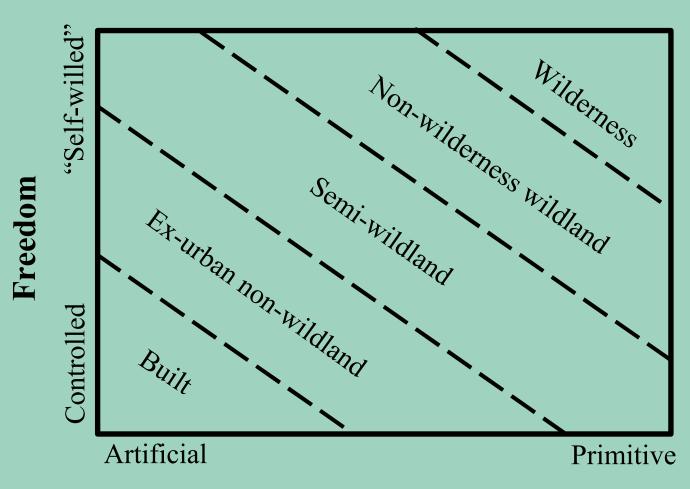


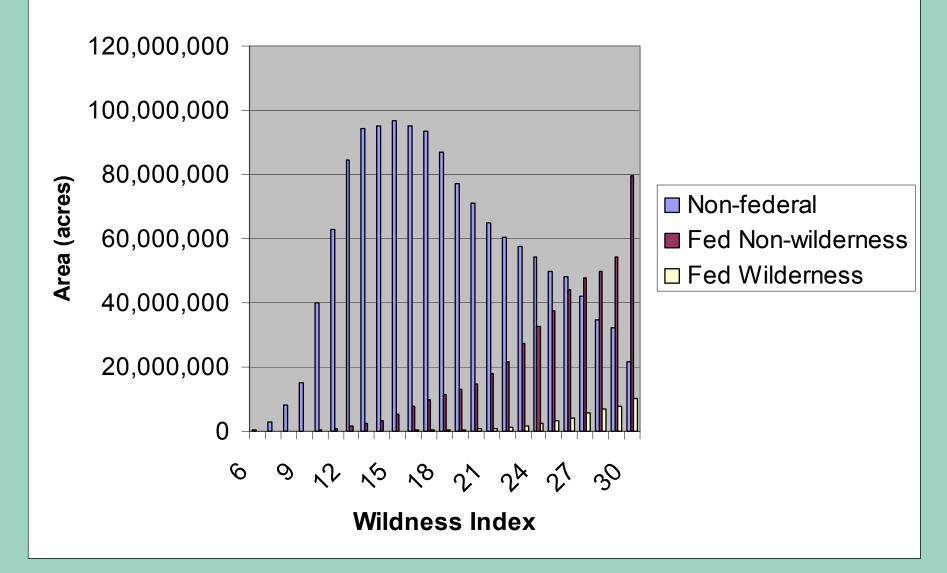
Figure 1. Wilderness Areas in Alaska in Relation to Bailey's Ecoregions at Domain and Divisio http://www.fs.fed.us/institute/ftp/maps/na regns shp zip

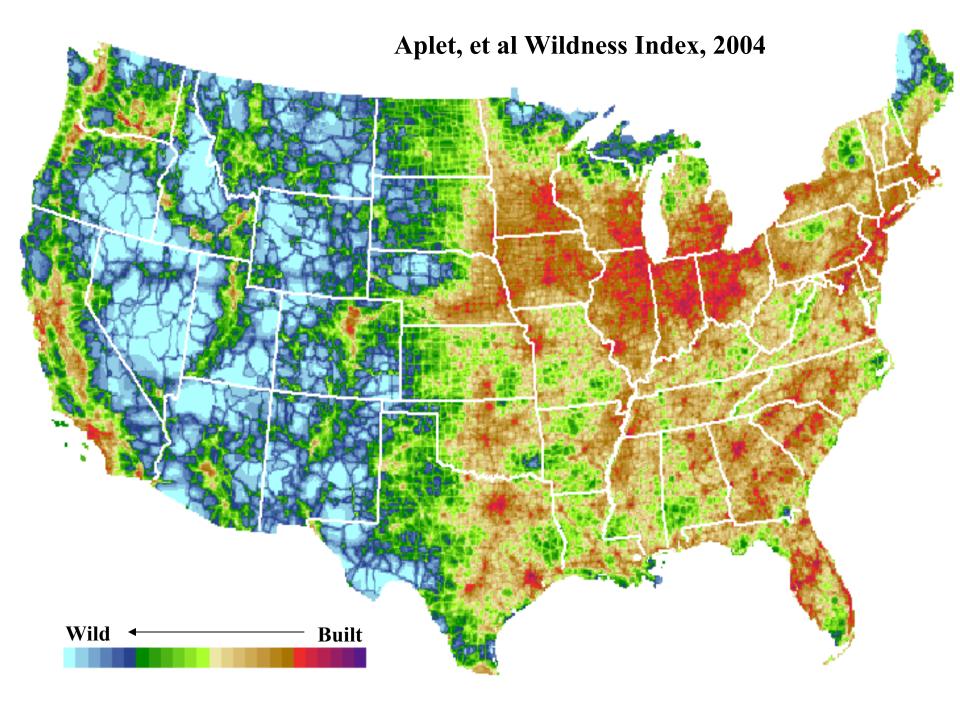
The Wildland Continuum



Naturalness

Fig. 2. Distribution of Wildness by Land Classification - Contiguous U.S.





ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

An Organizing Framework for Wilderness Values

Basic Functional Connections	Measurement Accounts or Categories	Specific Types of Measures or Indicators
	Social	Psychological Sociological Anthropological
Wilderness Values	Economic	Active Use Value Passive Use Value Economic Impacts
	Ecologic	Human Life Support Value Animal and Plant Life Support Value
	Ethical	Instrumental Value Intrinsic Value
Wilderness Services	Animal and Plant Habitat; Carbon Sequestration; Subsistence Living; Cultural Preservation; Historic Preservation; Scientific Discovery; Educational Development; Personal Physical Health and Growth; Personal Emotional Health and Growth; Personal Spiritual Health and Growth; Community Health and Quality of Life	
Wilderness Functions	Preservation of Natural and Wild Places; Recreational and Experiential Setting; Ecosystem and Biodiversity Preserve	
Wilderness Attributes	Geographic; Geologic; Hydrologic; Atmospheric; Biologic; Naturalness; Wildness; Constructed	

Basic Functional Connection	Measurement Accounts or Categories	Examples of Measures or Indicators
	Social	Developmental/Health Value Social Identify Value Spiritual Value
Wilderness Values	Economic	Active Use Value Passive Use Value Economic Impacts
	Ecologic	Human Life Support Value Animal and Plant Life Support Value
	Ethical	Instrumental Value Intrinsic Value

ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

Humans Were Meant to Rule Over Nature

29%

14% Strongly Agree **15%**

Somewhat Agree

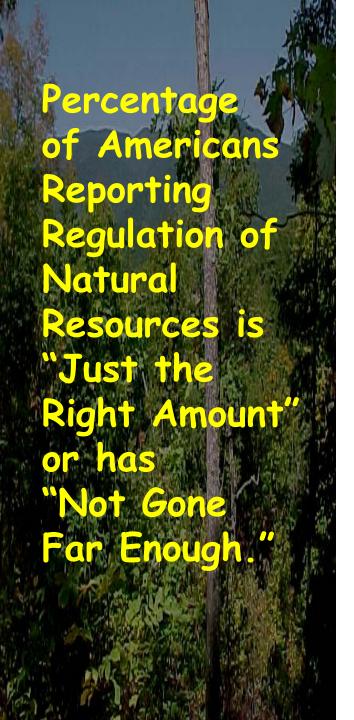
61%

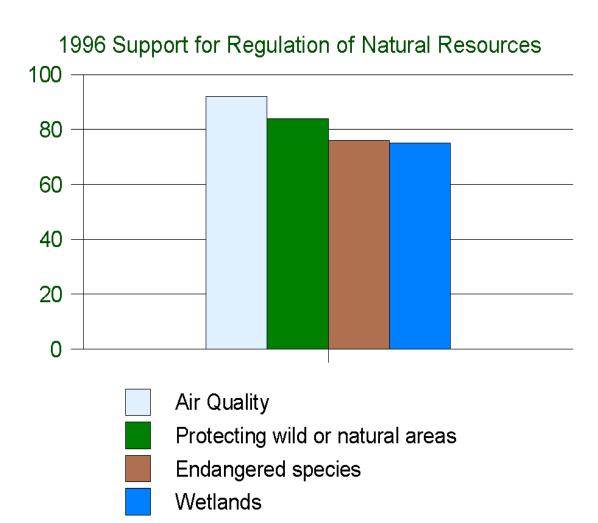
(6% Neutral)

19%

Somewhat Disagree 42%

Strongly Disagree





Public Views on Wilderness

- •Nationally about 1/2 of American's 16+ report knowing about the NWPS
- •Only 4.4% feel we have put too many acres into the NWPS:
 - Not enough 52.6%
 - About right 26.9%
 - Too much 4.4%
 - Not sure 15.4%

American residents' attitude toward the amount of Wilderness land in the USDA National Forest system

	Percent of Respondents
Too little/Not enough	61
About right	24
Too much	8
Not sure/Don't know	7

What Americans in 2002 Value about Wilderness

Ī	
	Wilderness Value
į	Protecting air quality
	Protecting water quality
	Protecting wildlife habitat
Ī	Protecting endangered species
	Legacy for future generations
	Preserving unique ecosystems and genetics
	Future option to visit
	Just knowing it is preserved
	Providing scenic beauty
	Providing recreation opportunities
	Providing spiritual inspiration
	Undisturbed area for scientific study
	Providing income for tourism industry

Percentage 5	A STATE OF THE PARTY NAMED IN
Extremely Important	Slightly or Not Important
58.4	1.5
55.9 52.7	1.5 3.1
49.8	
49.1 44.3	3.1
37.5	5.1 7.1
	6.4
	5.5 7.2
25.9	
23.9	11.6 33.5

Trends in Public Values of Wilderness

Ē	Very or extremely In	nportant (0/0)	35	7
d	Wilderness value	1994	2002	Change	
1	Protecting water quality	78.9	93.1	14.2	7
	Protection of wildlife habitat	78.6	87.8	9.2	
	Protecting air quality	78.0	92.3	14.3	Š
	For future generations	76.9	87.0	10.1	
i	Protection for endangered spp	73.7	82.7	9.0	
S.	Preserving ecosystems	66.5	80.0	13.5	
i	Scenic beauty	59.7	74.0	14.3	
	Future option to visit	59.4	75.1	15.7	h
	Just knowing it exists	56.1	74.6	18.5	
	For scientific study	46.3	57.5	11.2	
	Recreation opportunities	48.9	64.9	16.0	
	Providing spiritual inspiration	43.2	56.5	13.3	
	Income for tourism industry	22.8	29.7	6.9	
n	International Journal of Wilderness Research	arch last voor			

Summation

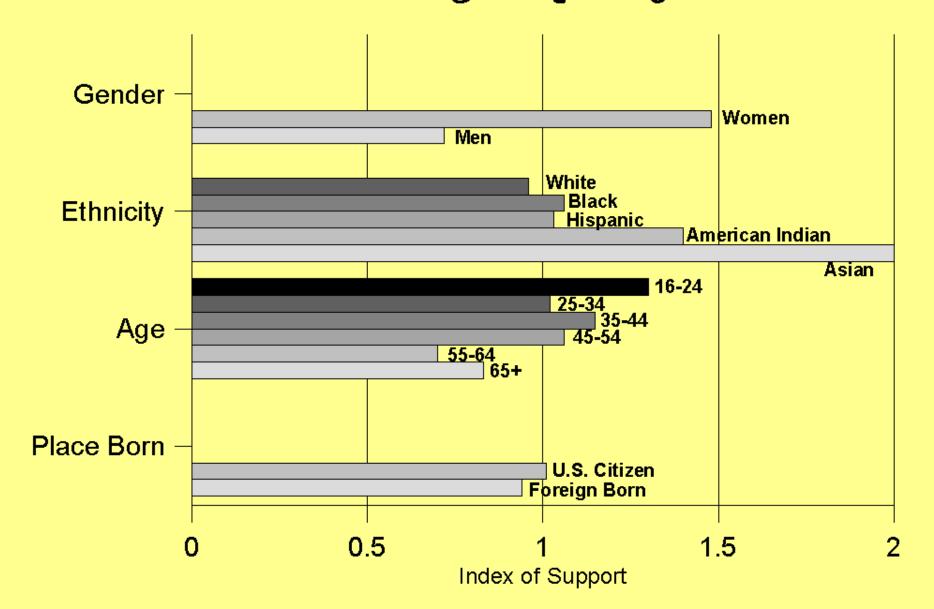
There are three underlying dimensions of Wilderness values that the above public surveying has revealed. In order, by percentage of Americans saying they are extremely important, they are:

- 1. Ecological services, especially clean air and water for humans and other species, on and off site
- 2. Ecosystem protection, including wildlife habitat, endangered species and rare and unique species
- 3. Amenities for human appreciation and use, including wildlands for future generations, current and future options for recreation, scenery, spiritual inspiration, scientific study, and a draw for tourism

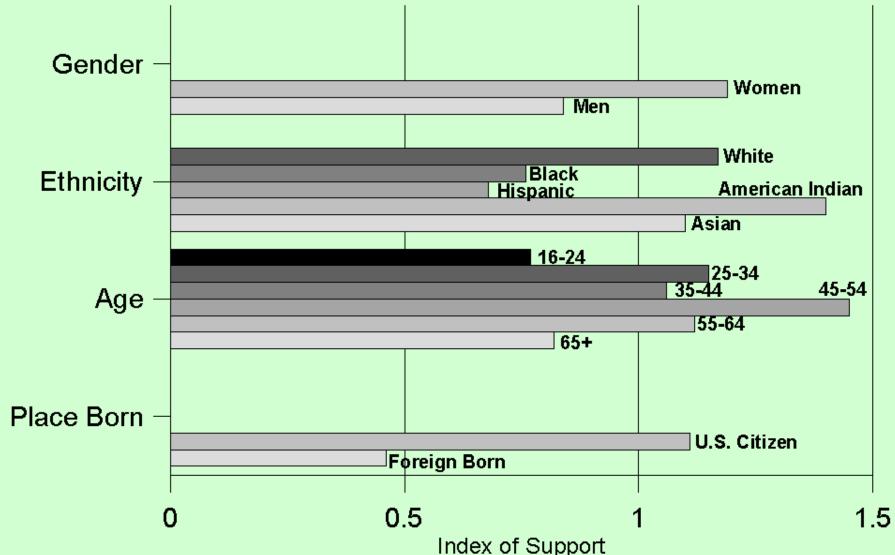
ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values

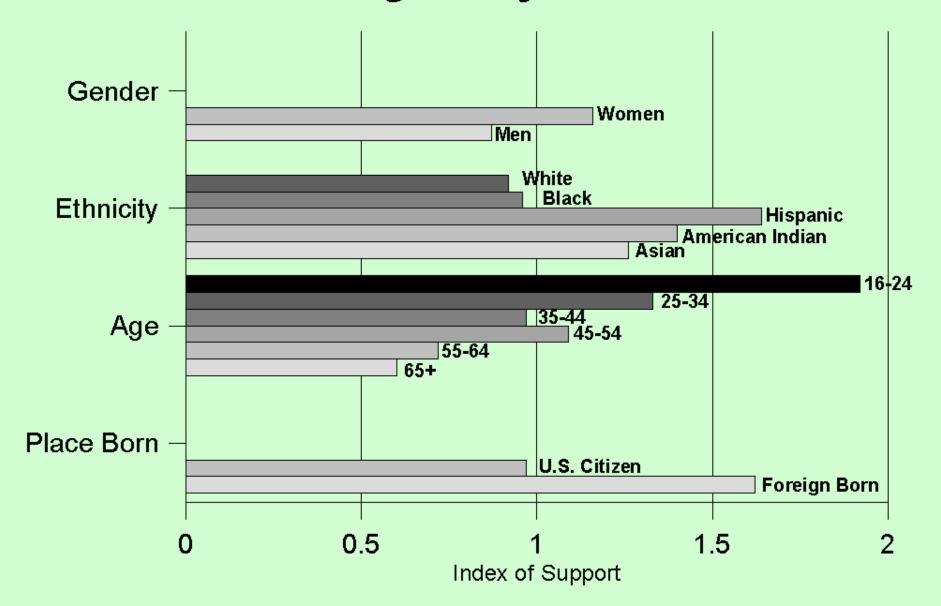
The Most Important Benefits of Wilderness Protecting air quality



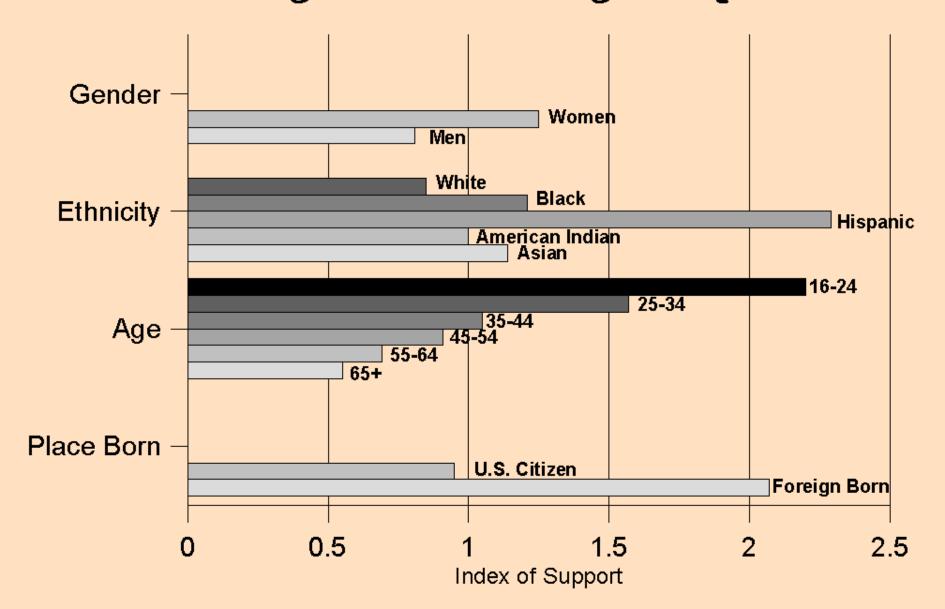




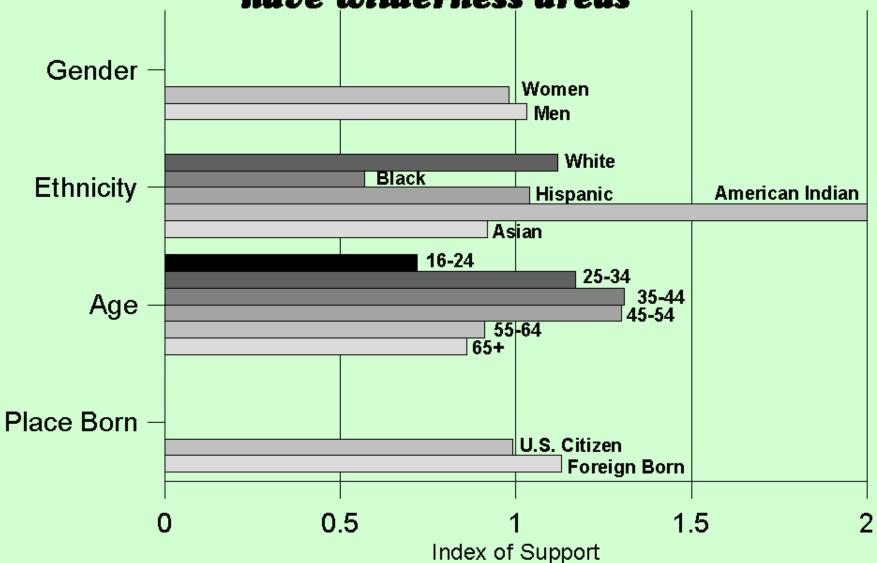
The Most Important Benefits of Wilderness Protecting wildlife habitat

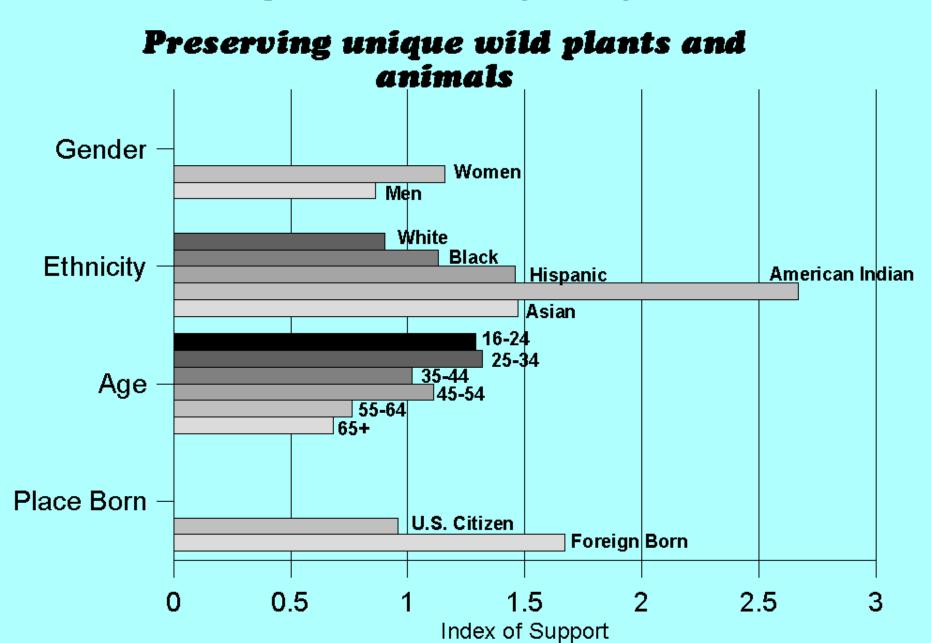


The Most Important Benefits of Wilderness Protecting rare and endangered species

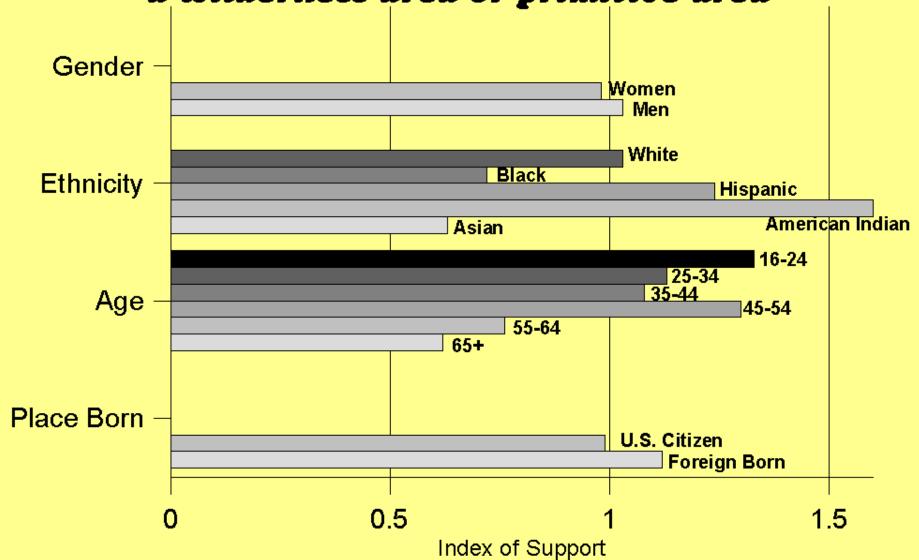


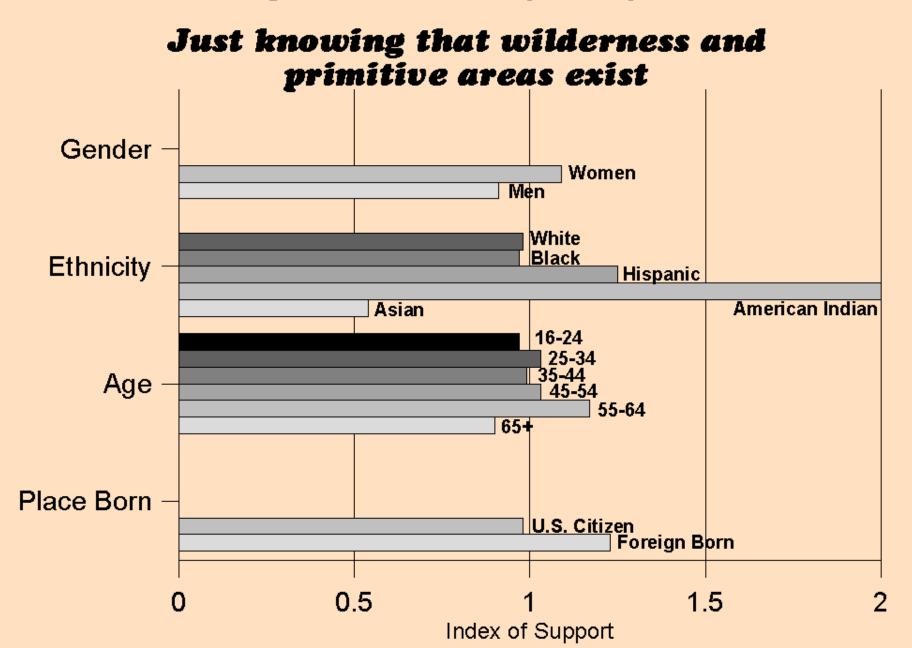




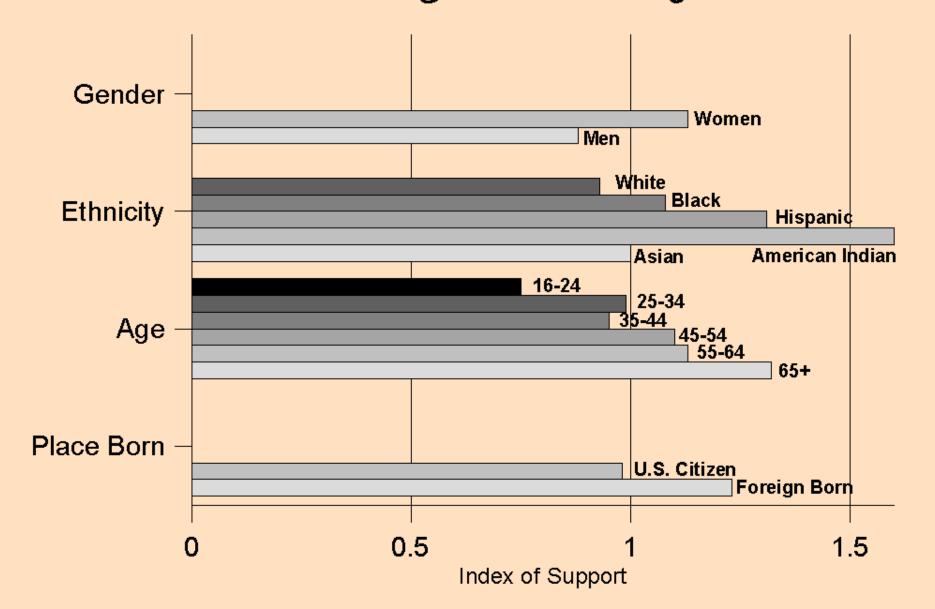


Knowing I will have future option to visit a wilderness area or primitive area

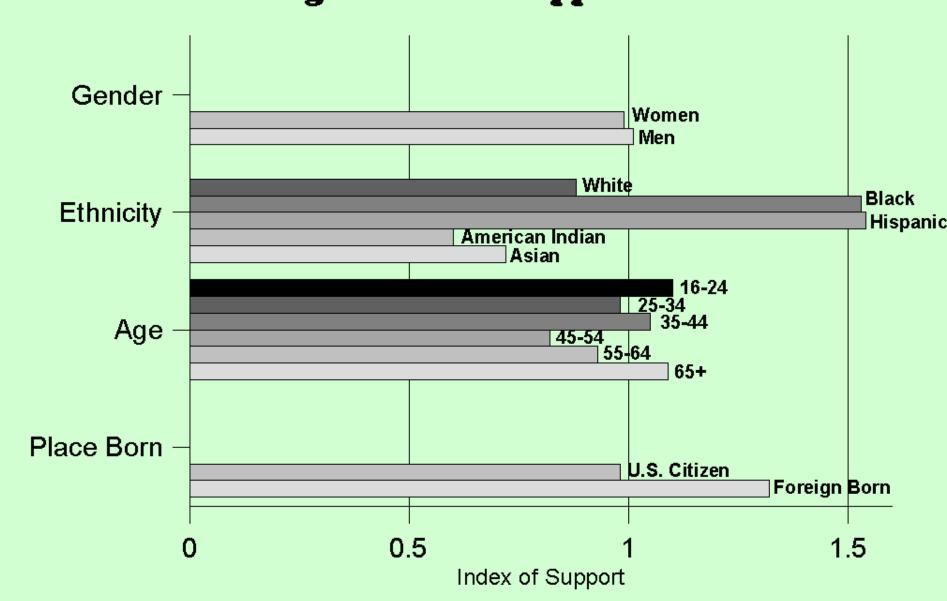




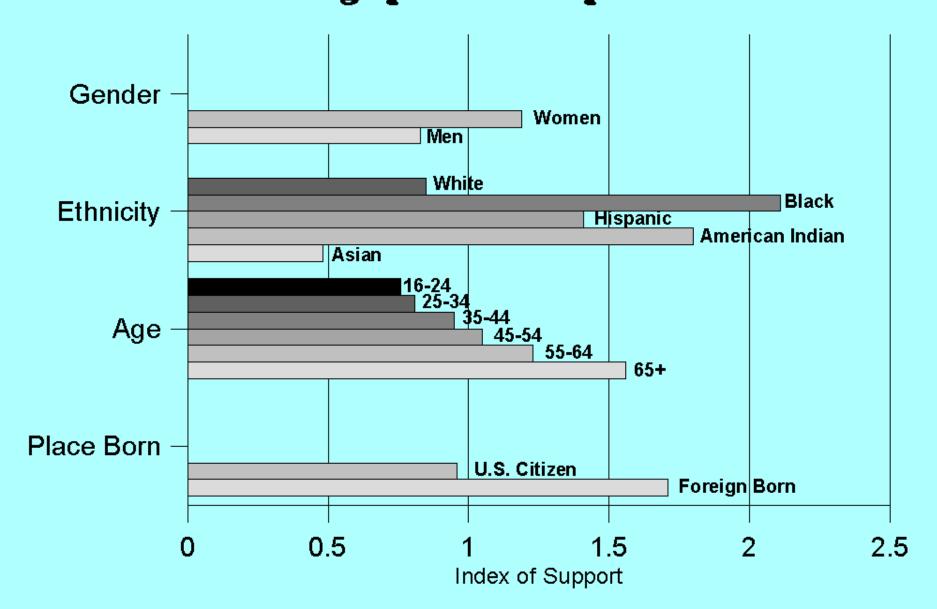
The Most Important Benefits of Wilderness Providing scenic beauty

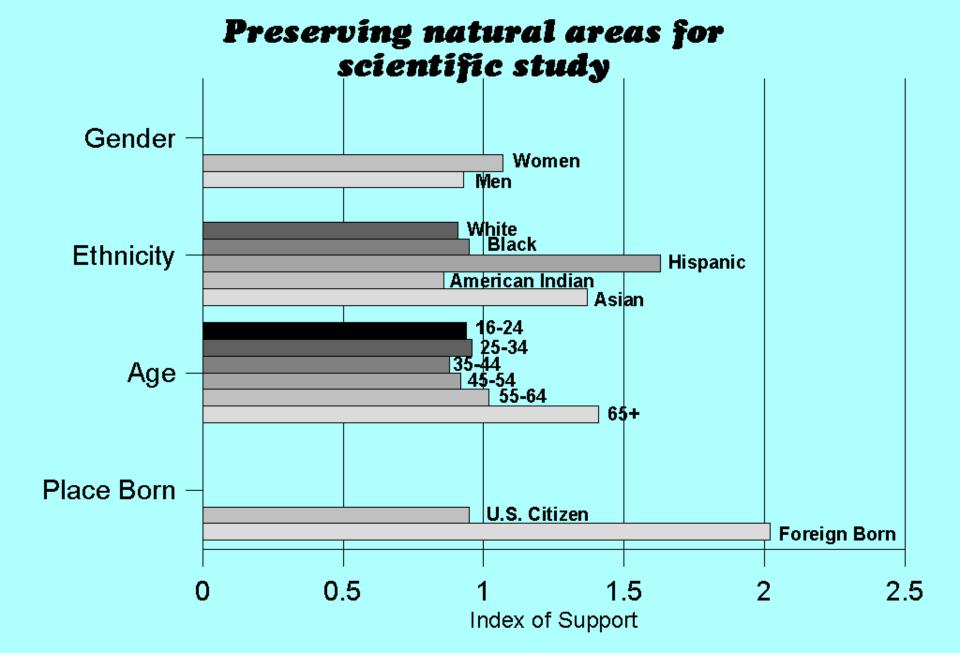


The Most Important Benefits of Wilderness Providing recreation opportunities

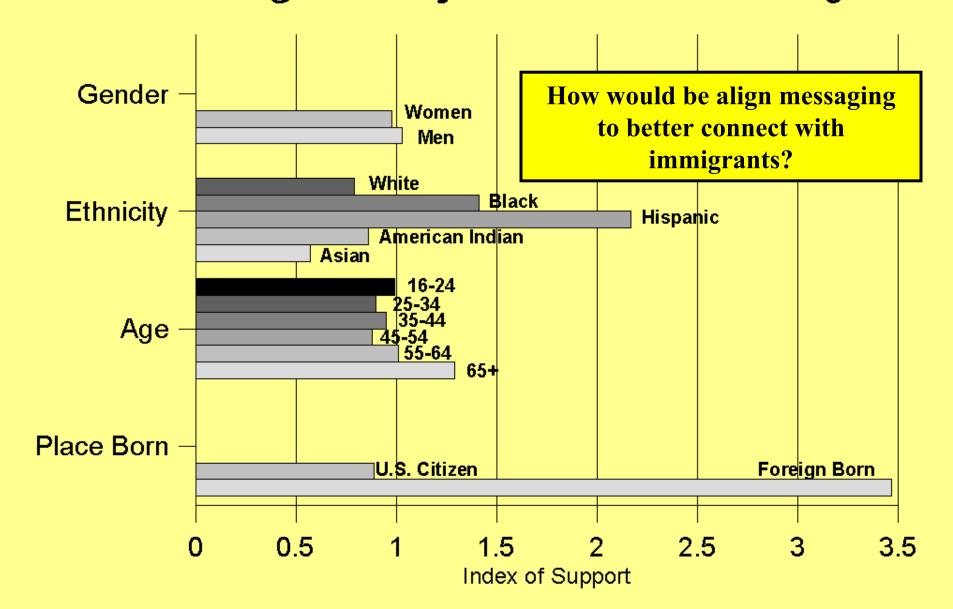


The Most Important Benefits of Wilderness Providing spiritual inspiration

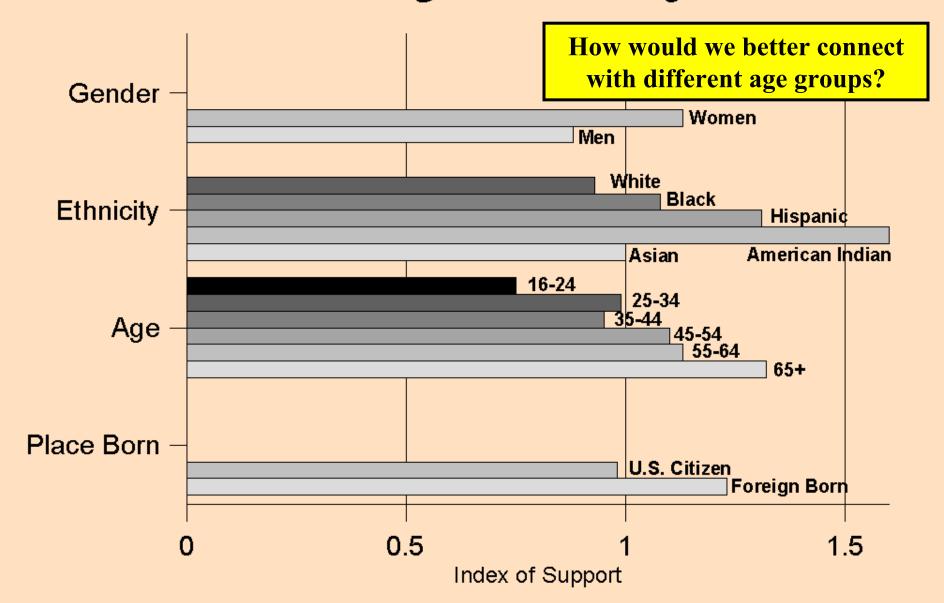




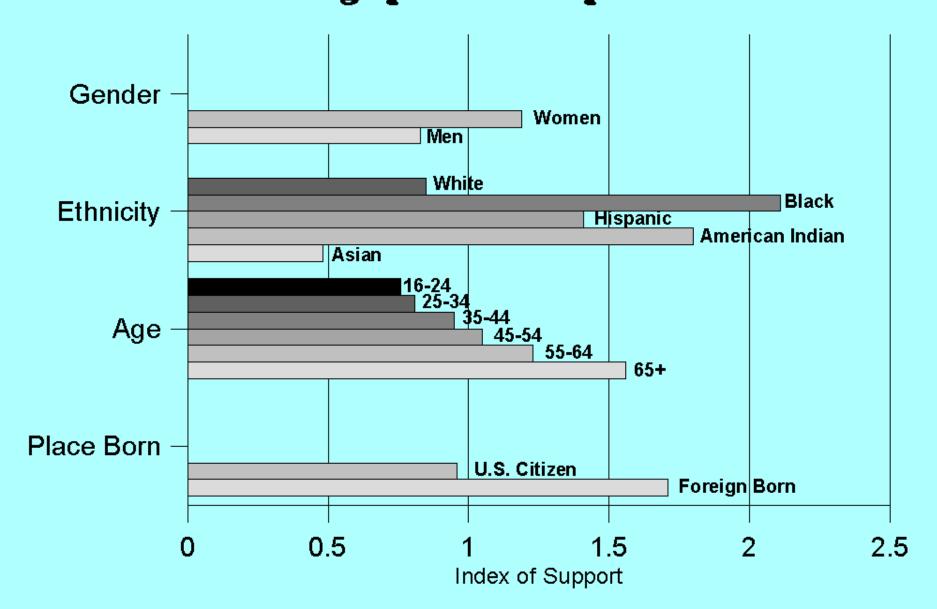
The Most Important Benefits of Wilderness Providing income for the tourist industry



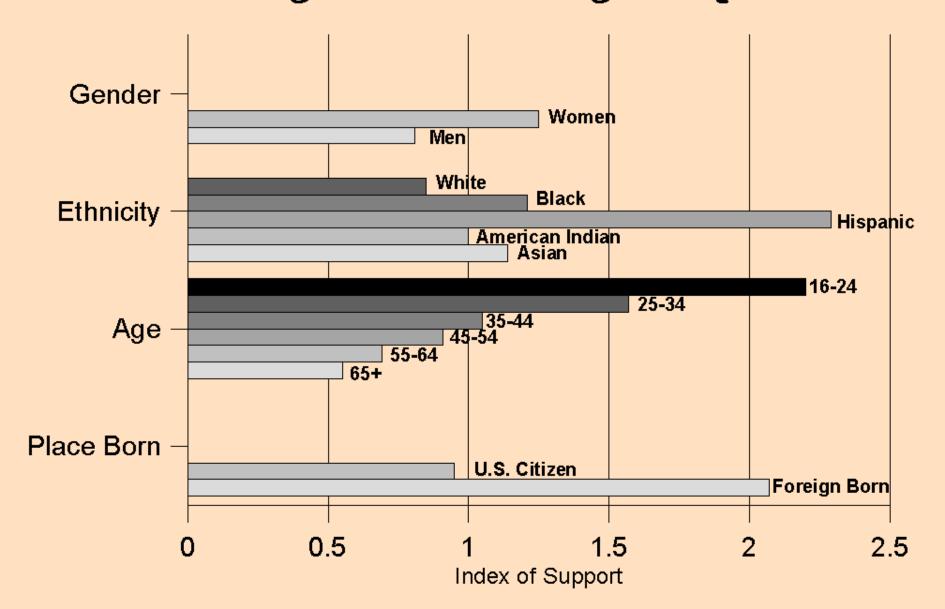
The Most Important Benefits of Wilderness Providing scenic beauty



The Most Important Benefits of Wilderness Providing spiritual inspiration



The Most Important Benefits of Wilderness Protecting rare and endangered species



Public Views on Wilderness

- Nationally about 1/2 of American's 16+ report knowing about the NWPS
- Only 4.4% feel we have put too many acres into the NWPS:
 - Not enough, 52.6%
 - About right, 26.9%
 - Too much, 4.4%
 - Not sure, 15.4%

Percentages of surveyed American population indicating support or opposition for designating additional wilderness in their own state

	Percent of Respondents
Favor Total	69.8
Strongly Favor	42.5
Somewhat Favor	27.3
Oppose Total	12.4
Somewhat Oppose	6.4
Strongly Oppose	6.0
Neither	12.2
Don't Know	5.6



Should we designate more Wilderness within Federal lands?

Important/ Very Important

Urban 62%

Suburban 56%

Rural 47%



Should we designate more Wilderness within Federal lands?

Important/
Very Important

White 59%

Black 49%

Hispanic 56%

Asian 75%



Should we designate more Wilderness within Federal lands?

Important/ Very Important

North 66%

South 55%

Great Plains 50%

Rockies 59%

Pacific Coast 59%

Recreation is another significant social benefit

Total visitation by agency, visitation by single-day and

multi-day use and by region

Total NWPS Site Visits	12,825,610
FS site visits	10,517,000
NPS site visits	1,923,841
FWS site visits	333,466
BLM site visits	51,302
Total single-day site visits	8,458,490
Total multi-day site visits	4,367,120
Total FS, FWS, & BLM site visits	10,901,768
FS, FWS, & BLM single-day site visits (73%)	7,958,291
FS, FWS & BLM multi-day site visits (27%)	2,943,477
Total NPS site visits	1,923,841
NPS single-day use (26%)	500,199
NPS multi-day use (74%)	1,423,643

Mean scores of responses to 16 wilderness recreation experience preference domains from eight designated wilderness areas

Benefit	Grand Mean
Enjoy nature	1.5
Physical fitness	2.0
Reduce tensions	2.2
Escape	2.2
Outdoor learning	2.3
Sharing values	2.8
Independence	3.0
Family kinship	3.0
Spiritual	3.1
Considerate people	3.3
Achievement/stimulation	3.4
Physical rest	3.5
Teach/lead others	3.8
Risk taking	4.6
Risk reduction	4.7
Meet new people	5.1

Population-wide Total (Overlapping) Occasions Per Year by Groupings of Activities (2000-01)

PERCENT OF POPULATION PARTICIPATING AND PER-CAPITA OCCASSIONS

All activities	98.5%	273.8
Viewing, learning, gathering activities	88.4%	136.1
Developed site activities	94.9%	93.3
Activities on trails	40.4%	40.3
Swimming, surfing, and other beach activities	2.8%	36.6
Motorized activities	62.0%	31.3
Hunting and fishing	38.1%	26.9
Snow activities	19.3%	13.3
Risk activities	35.2%	12.0
Non-motorized activities	22.8%	7.9

Outdoor Recreation for 21st Century America

Outdoor Recreation for **21st Century America**

A Report to the Nation: **The National Survey on Recreation** and the Environment

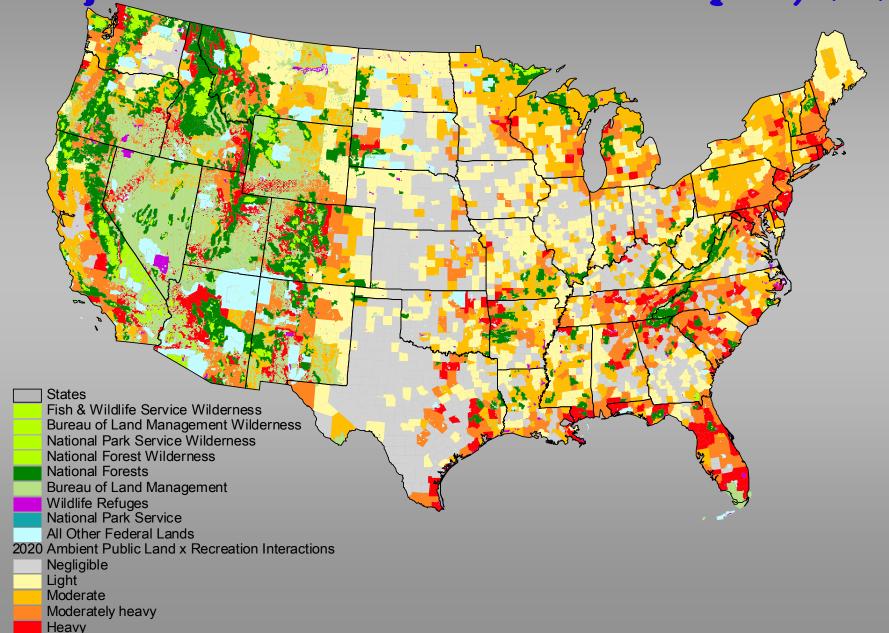


H. Ken Cordell **Principal Author**

Venture Publishing

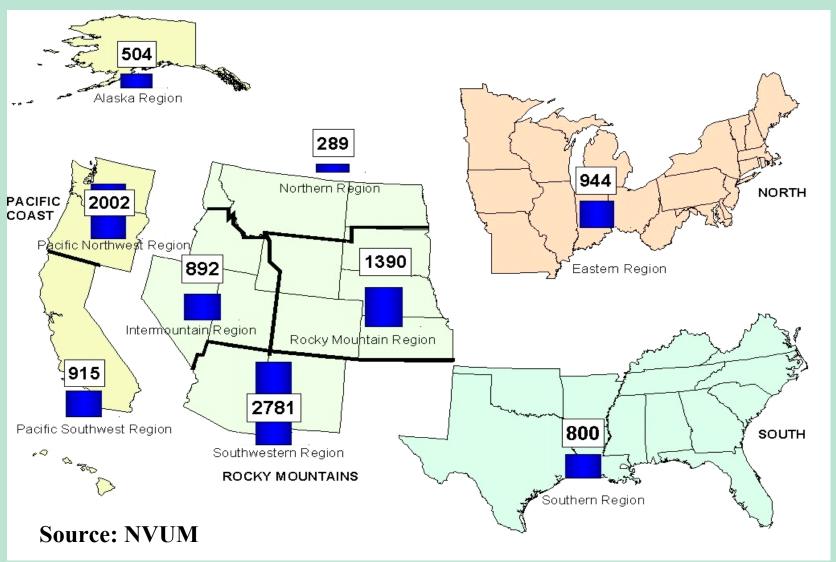


Public Lands and NWPS Lands Overlaid onto Projected Recreation Demand Hotspots, 2020

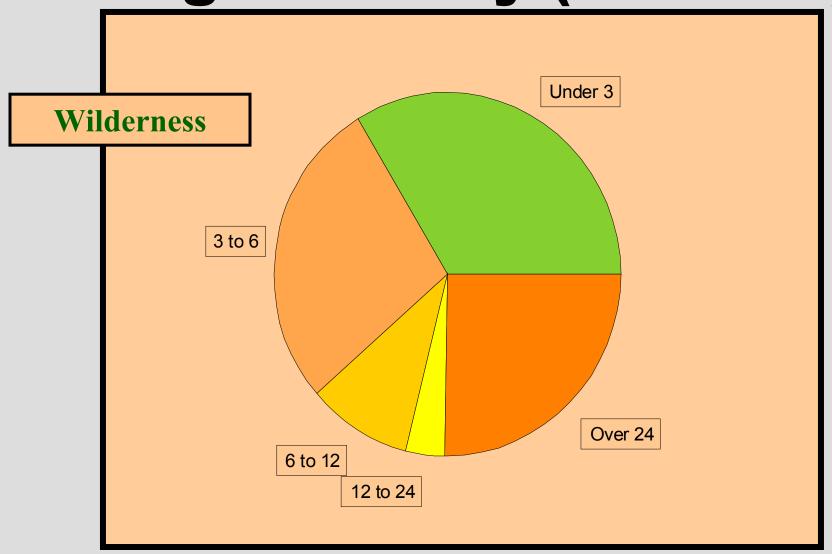


Wilderness Visits to National Forests 2001

(Thousands)



Distribution by Length of Stay (in hours)



Percentages of single-day wilderness visits by Forest Service Region

Forest Service Region	Percentage single-day use (FS only)
R1 – Northern Rocky Mountain	55.8
R2 – Rocky Mountain	85.9
R3 – Rocky Mountain-Southwest	93.6
R4 – Intermountain	84.0
R5 – Pacific – Southwest	77.5
R6 – Pacific – Northwest	62.6
R8 – South	70.8
R9 – North	29.8
R10 – Alaska	98.1
Average	73.1

Duration of Wilderness Visits

Site Type	Site visit (hours)
Developed Day Use	1.9
Developed Overnite	25.9
General Forest Area	26.5
Wilderness	19.7

Age Distribution (%)

Category	All NF Visits	Wilderness Site Visits
20 and Under	17.6	21.6
21 to 30	13.3	20.4
31 to 40	22.1	33.4
41 to 50	15.0	15.1
51 to 60	12.8	6.1
61 to 70	12.8	2.6
Over 70	6.6	0.7

Race/ethnicity Distribution (%)

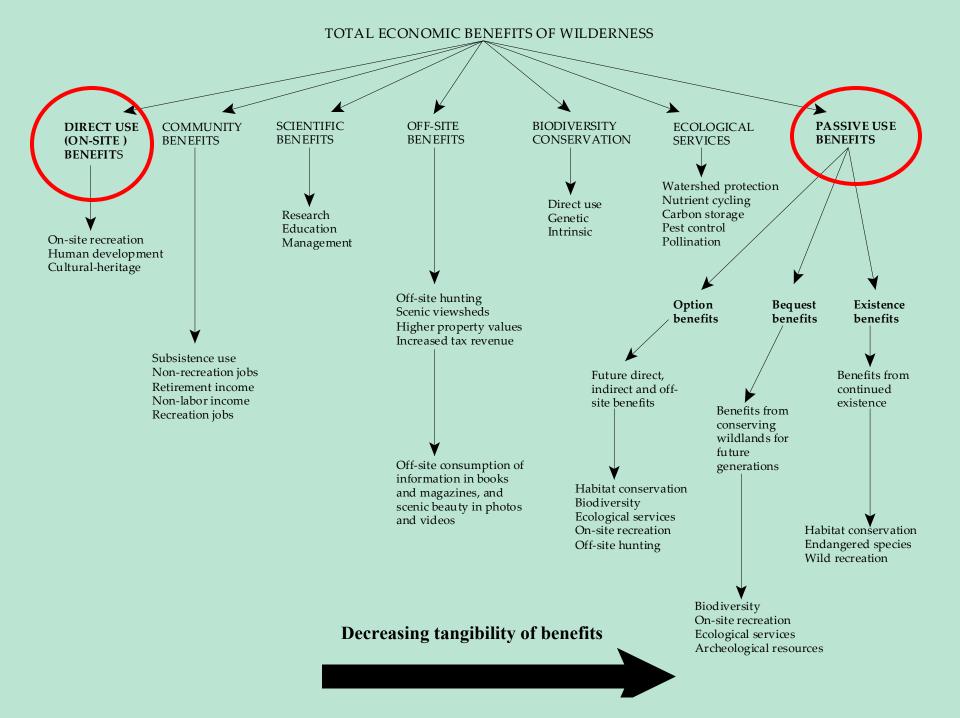
Category	All NF Visits	Wilderness Site Visits
White	97.4	97.3
Spanish, Hispanic or Latino	0.4	0
Black/African American	0.8	1.5
Asian	0.3	1.2
Am. Indian/ Alaska Native	0.1	0
Native Hawaiian or Pacific Islander	0.8	0
Other	0.2	0

Perceptions of Crowding

Perception of crowding	Overnight Sites	Day Use Sites	Wilderness	General Forest
10 Over crowded	0.0	0.0	0.0	2.9
9	6.3	0.0	0.0	0.0
8	16.9	1.1	14.4	1.1
7	3.2	4.8	0.0	4.7
6	13.7	2.0	1.3	10.1
5	27.9	15.1	53.4	19.2
4	13.7	7.7	5.0	15.1
3	13.3	27.2	14.3	13.8
2	0.0	25.9	11.6	18.4
1 Hardly anyone there	5.1	16.2	0.0	14.6

ABOUT THIS PRESENTATION

- 1. Some selected principles of good Wilderness management
- 2. The changing social context
- 3. A big picture description of the NWPS and the characteristic of "Wildness"
- 4. A Framework of Wilderness values
- 5. Social Values and Group Differences
- 6. Economic Values
- 7. Ecological and Intrinsic Values



Direct On-Site Use and Passive Use Economic Value

Value Type	Use	Net Economic Value	Annual Net Economic Value
On-site recreation value: Single-day use	8.4 million single-day trips per year	\$19.50 per trip	\$165 million
On-site recreation value: Multi-day use	4.4 million multi- day trips per year	\$68.47	\$299 million
Passive use Value	52.7 million households	\$63.31 per household	\$3.34 billion
		Total Annual NEV	\$3.8 billion
		Per acre	\$35.89

Summation

- Passive use net economic value per annum is estimated to be \$3.45 billion.
- On-site recreation use value is estimated to be around \$464 million per year
- Passive use value is estimated to be over 7 times (7.4 actually) greater than on-site recreation use value.

Economic Impacts

Does Wilderness Designation Harm Rural Economies?

- There are no discernible general patterns of negative impacts from Wilderness existing in rural counties
- Economic growth is greater for non-metropolitan counties that contain or are near publicly-owned natural areas, including Wilderness
- Wilderness contributes to the quality of life of local residents and it is actively sought in migration decisions
- The role of Wilderness in local economic development is similar to the old BASF commercial: "We don't build it, we just make it better"
- Economic growth is increasingly being generated by multiplier effects from consumer spending in the services and trades sectors
- But, the total volume of visitation to Wilderness, and the associated spending by nonlocal visitors is not sufficient to sustain any significant tourism industry by itself
- "Wilderness protection does not impoverish communities by locking up resources. Rather, it protects the economic future of those communities by preserving high quality natural environments that are increasing in demand across the nation." (Tom Power 1996)

Economic Growth Effects of Wilderness in Non-Metropolitan Western Counties

Counties Containing:	Number of Counties	Employment Growth 1969-1997 (%)	Income Growth 1969-1997 (%)
No federal lands	13	63.5	755.9
Any federal lands	401	142.7	992.5
Federal multiple use lands	172	115.6	864.5
Federal multiple use lands and protected lands	230	163.3	1089.7
More protected lands than multiple use lands	13	197.3	1109.2

Correlation of percentage of Wilderness in a sample of western rural counties and their economic development indicators

	Employment growth, 1969-1996	Per Capita Income growth, 1969-1996	Total Income growth, 1969-1996	Population growth, 1969-1996
All rural counties (n=113)	0.382	0.253	0.341	0.337
Rural counties not adjacent to metropolitan areas (n=83)	0.443	0.289	0.406	0.453

Percent agreeing or disagreeing with Wilderness statement, National Survey

Statement	Agree	Disagree	No Opinion
Nearby wilderness areas are important to county	81	10	9
Wilderness important reason why move or stay	53	26	22
There should be more access to wilderness	43	36	21
Additional wilderness should be designated nearby	39	35	26
Wilderness areas should be opened for mineral and energy development	22	65	13

Economic Impacts

Does Wilderness Designation Harm Rural Economies?

- There are no discernible general patterns of negative impacts from Wilderness existing in rural counties
- Economic growth is greater for non-metropolitan counties that contain or are near publicly-owned natural areas, including Wilderness
- Wilderness contributes to the quality of life of local residents that is actively sought in migration decisions
- The role of Wilderness in local economic development is similar to the old BASF commercial: "We don't build it, we just make it better"
- Economic growth is increasingly being generated by multiplier effects from consumer spending in the services and trades sectors
- But, the total volume of visitation to Wilderness, and the associated spending by nonlocal visitors is not sufficient to sustain any significant tourism industry by itself
- "Wilderness protection does not impoverish communities by locking up resources. Rather, it protects the economic future of those communities by preserving high quality natural environments that are increasing in demand across the nation." (Tom Power 1996)

Additional Values (No less Important)

- Ecological (The contribution of Wilderness to sustaining natural systems that support life, human and non-human)
- Intrinsic (From a philosopher's perspective, the intrinsic value of something is really its claim *to be*)

TOP 5 WALES S

- > Protecting air quality
- > Protecting water quality
- > Protecting wildlife habitat
- > Protecting T&E species
- Legacy for future generations (By Majority Vote)

SOME PRINCIPLES of GOOD WILDERNESS MANAGEMENT

- Wilderness is first and foremost a <u>national resource</u> for the benefit of all, human society and non-humans alike
- National, regional, and local social, economic, political, and environmental conditions and trends define the changing context within which Wilderness is managed. It is important to know the trends
- The <u>optimum Wilderness management goals</u> may not always please local interests or the current visitors
- There are equity and other social issues associated with every management decision made and accounting for them is a responsibility in good management
- Fragmented (compartmentalized) decision making is easier, but not better
- Good planning is forward looking, based on what could and should be, not necessarily what is or has been

SOME POINTS TO PONDER

- •Wilderness is an American treasure, owned by the people of this Country, held by you in a trust of stewardship
- •Stewardship includes being informed of the positions and values of the "Stockholders" of this rich national treasure—IT IS IMPORTANT TO KNOW THE DATA
- •Limiting data to on-site surveys and "conventional wisdom" ignores the vast majority of the Wilderness System's owners, the public, most of whom will never show up—USE HOUSEHOLD SURVEYS

The Multiple Values of Wilderness The Multiple Values of Wilderness Cordell Principal Author H. Ken Cordell **Principal Author**



QUESTIONS

My questions:

- 1. Many different aspects of Wilderness are valued by the American Public. Among these values are passive use values and on-site recreation use values. Science-based estimates of one of these types of values is larger in economic terms than the other. Which is larger AND by a magnitude of how much? (E.g., twice as large, 4 times as large, etc.)
- _______.
- 2. What are the three dimensions of Wilderness values that have resulted from public survey research Ken Cordell and his colleagues have done recently. Please put them in the correct order from the highest public support percentage (first one on your list) to the lowest public support percentage (third one on your list).

- 4. Many different aspects of Wilderness are valued by the American Public. Among these values are passive use values and on-site recreation use values. Science-based estimates of one of these types of values are larger in economic terms than the other. Which is larger AND by a magnitude of how much. (e.g., twice as large, 4 times as large, etc.)
- Passive use net economic value per annum is estimated to be \$3.45 billion.

 On-site recreation use value is estimated to be around \$464 million per year.

 Passive use value is estimated to be over 7 times (7.4 actually) greater than onsite recreation use value.
- 5. What are the three dimensions of Wilderness values that have resulted from public survey research Ken Cordell and his colleagues have done recently? Please put them in the correct order from the highest public support percentage (first one on your list) to the lowest public support percentage (third one on your list).
- 1. <u>Ecological services</u>, especially clean air and water for humans and other species, on and off site
- 2. <u>Ecosystem protection</u> including wildlife habitat, endangered species and rare and unique species
- 3. <u>Amenities for human appreciation and use</u> including wildlands for future generations, recreation, spiritual inspiration, scientific study, and a draw for tourism